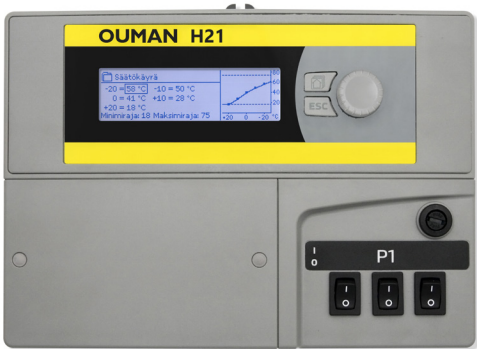
H21 Heating controller



The Ouman H21 is a single-circuit surface-mounted temperature controller. It is suitable for both radiator and floor heating.

TECHNICAL INFORMATION

Product code	OMA0692
Dimensions	width 230 mm, height 160 mm, depth 68 mm
Weight	1.3 kg
Protection class	IP41
Operating temperature	0 °C...+50 °C
Storing temperature	-20 °C...+70 °C
Power supply L(91), N (92-94)	
Operating voltage	230 Vac / 200 mA
The internal 24 V power source, total load capacity of max.	1A/23 VA
Supply cable fuse	max 10A
Measurement inputs	
Sensor measurement (inputs 11-19)	NTC10-element: ±0,2 °C between -50 °C...+70 °C Also sensor tolerances and the effect of cables must be considered when calculating total accuracy. Measurement M1 can be connected also from outside of the casing by a plug-connector.
Digital inputs (27, 28)	Contact voltage 15 Vdc, switching current 5 mA. Transfer resistance max. 250 Ω (closed), min. 350 Ω (open).
Analog outputs (68)	Output voltage range 0...10 V. Output current max. 7 mA
15 VDC voltage outputs (1)	Maximum load of 15 VDC output: 100 mA
24 VAC voltage outputs (51)	Total current of 24 VAC output and triac-outputs max. 1A.
Pump control contacts (84,85)	Contacts for three circulation pump. Pumps are controlled by a switches on the top of the H21 device. Relay max. load 3A.
Protective earth terminal (73-78)	Protective earth terminal block for 230V devices. Control circuit fuse max. 10A
Control outputs (51)	24 VAC -control output
Triac (55...60)	Total current of triac-outputs and 24 VAC output max. 1A.
Data transfer connections	
RS-485-bus A+ (3) and B- (6)	Unisolated, supported protocols Modbus-RTU.

Options	
M-LINK	M-LINK adapter provides Modbus TCP / IP interface for H21 device.
GSMMOD	By connecting the GSM modem to the H21 , you can communicate with the text messages to device and receive alarms to GSM phone.
Directives	
Low Voltage Directive	2014/35/EU
EMC-directive	2014/30/EU
RoHS Directive	2011/65/EU
The following harmonised standards and technical specifications have been applied:	
LVD:	EN 60730-1:2011 EN 62233: 2008
EMC:	EN 60730-1:2011 EN 61000-3-2:2014 EN 61000-3-3:2013